

**THE MINISTER OF STATE OF THE MINISTRY OF NEW AND RENEWABLE ENERGY (SHRI VILAS MUTTEMWAR):** (a) and (b) It is proposed to install 10 million sq. m. of collector area for solar water heating and other applications during the 11th Plan period. This includes 7 million sq. m. of solar collector area for domestic systems which are expected to provide hot water in around 3.5 million homes in the country including Orissa. No State-wise targets have been fixed as the programme is proposed to be implemented in market mode with participation of manufacturers, suppliers and banks/financial institutions.

(c) The availability of solar energy varies from 250-300 days in different parts of the country.

(d) Solar water heating systems of 35,200 litres per day capacity have been installed in the State during the last three years including domestic systems and installations in nursing homes, hospitals and rest houses. Steps have been taken by Orissa Renewable Energy Development Agency (OREDA) to popularize solar water heating systems through awareness campaigns, organizing workshops, contacting individuals, hotels, hospitals etc. for installation of the systems. Steps have also been taken to amend building bye-laws in the State to facilitate mandatory installation of solar water heating systems in functional Government buildings. In addition, around 5769 solar street lighting systems, 4,344 home lighting systems, 9882 solar lanterns, 36.52 KW capacity SPV power plants and 3,437 solar cookers have been deployed in the State upto 30.09.2006.

### **Formulation of new energy policy**

**642. SHRI O.T. LEPCHA:** Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) whether Government have formulated any draft of a new energy policy in the country;

(b) if so, the details thereof and if not, the reasons therefor;

(c) whether it is a fact that the existing energy policy being implemented in the country has failed to meet its objectives; and

(d) if so, the details thereof?

**THE MINISTER OF STATE OF THE MINISTRY OF NEW AND RENEWABLE ENERGY (SHRI VILAS MUTTEMWAR):** (a) An Expert Committee on Integrated Energy Policy constituted by the Planning Commission has submitted its report (IEPR).

(b) As per IEPR, the requirement of primary energy supply, electricity generation capacity/supply, and crude oil supply are estimated to increase 3-4 times, 5-6 times and 3-4 times respectively of their 2003-04 levels by 2031-32 (end of XV Plan period). This apart, this Ministry has also formulated a draft New and Renewable Energy Policy, which is placed on its website.

(c) and (d) Do not arise.

**Demand and supply of bio-mass power generation**

**643. SHRI RAMDAS AGARWAL:** Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) whether there is a big gap in demand and supply of bio-mass power generation in the country;

(b) if so, the steps Government have taken so far to increase power generation through Bio-Mass Gasification Technology-07;

(c) whether India has been exporting Bio-Mass Gasification Technology;

(d) if so, the details thereof and the reasons therefor;

(e) whether Government have signed any agreement with UNDP Global Environment Fund and German Financial Institution to develop projects for harnessing bio-mass energy resources in the country; and

(f) if so, the funding pattern thereof?

**THE MINISTER OF STATE OF THE MINISTRY OF NEW AND RENEWABLE ENERGY (SHRI VILAS MUTTEMWAR):** (a) In the context of gap in demand and supply of power from conventional sources, potential exists for supplementing generation of power from various renewable energy sources including biomass. Power generation potential of 21000MW has been estimated from biomass such as surplus agricultural residues and sugar cane bagasse.

(b) The Biomass gasifier systems coupled with 100% producer gas engines are being implemented mainly for meeting the unmet demand of